

. PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT (PCT Article 18 and Rules 43 and 44)800 MAIL ROOM

Applicant's or agent's file reference	FOR FURTHER AND Marification of Transmitted of International Search Percent							
FP1157	FOR FURTHER see Notification of Transmittal of International Search Report ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.							
International application No.	International filing date (day/month/year) (Earliest) Priority Date (day/month/year)							
PCT/SG 99/00139	8 December 1999 (08.12.1999)							
Applicant								
ASM Technology Singapore Pte Ltd. et al.								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.								
This international search report consists of	a total of 4 sheets.							
	by a copy of each prior art document cited in this report.							
 Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 								
the international search was Authority (Rule 23.1(b)).	carried out on the basis of a translation of the international application furnished to this							
b. With regard to any nucleotide ar search was carried out on the bas	nd/or amino acid sequence disclosed in the international application, the international is of the sequence listing:							
contained in the internationa	al application in written form.							
filed together with the intern	national application in computer readable form.							
furnished subsequently to th	is Authority in written form.							
furnished subsequently to th	is Authority in computer readable form.							
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.								
the statement that the inform been furnished.	nation recorded in computer readable form is identical to the written sequence listing has							
2. Certain claims were found	unsearchable (See Box I).							
3. Unity of invention is lacking	ng (See Box II).							
4. With regard to the title,	nitted by the applicant. A by this Authority to read as follows:							
the text is approved as subm	nitted by the applicant.							
the text has been established	nitted by the applicant. d by this Authority to read as follows: AN 2 9 2002							
5. With regard to the abstract,								
the text is approved as subm	nitted by the applicant.							
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.								
6. The figure of the drawings to be pub	lished with the abstract is Figure No.: 2							
as suggested by the applican	nt. None of the figures.							
because the applicant failed	to suggest a figure.							
because this figure better ch	naracterizes the invention.							



International application No. PCT/SG 99/00139

CLA	CLASSIFICATION OF SUBJECT MATTER						
	23 K 20/10; H 01 L 21/607						
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)							
IPC7. B	23 K 20/10· B 24 B 49/16: H 01 L 21/607						
Document	tation searched other than minimum documentation to the	extent that such documents are included in	the fields searched				
\	data base consulted during the international search (name	of data base and where practicable search	h terms used)				
Plectronic	data base consulted during the international search (name	of data base and, where practicable, scare	n terms used/				
WPI			:				
	CUMENTS CONSIDERED TO BE RELEVANT		-				
Category	Citation of document, with indication, where appropriate	, of the relevant passages	Relevant to claim No.				
Α	US 5431324 A (KAJIWARA) 11 July 199 fig.4.	1					
Α	US 5101599 A (TAKABAYASI) 7 April abstract.	. 1					
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	i i i i i i i i i i i i i i i i i i i	See patent family annex.					
	ther documents are listed in the continuation of Box C. al categories of cited documents:	.T" later document published after the internat	ional filing date or priority				
"A" docum	ment defining the general state of the art which is not	date and not in conflict with the applicatio the principle or theory underlying the inve	n but cited to understand				
consider ,E" earlier	dered to be of particular relevance r application or patent but published on or after the international	"X" document of particular relevance; the claim considered novel or cannot be considered	med invention cannot be				
filing	ment which may throw doubts on priority claim(s) or which is	when the document is taken alone					
cited t	to establish the publication date of another citation or other al reason (as specified)	"Y" document of particular relevance; the claim considered to involve an inventive step w	hen the document is				
"O" docur	ment referring to an oral disclosure, use, exhibition or other	combined with one or more other such do being obvious to a person skilled in the a	cuments, such combination				
	nent published prior to the international filing date but later than	"&" document member of the same patent fan					
Date of t	riority date claimed he actual completion of the international search	Date of mailing of the international search report					
1	4 July 2000 (04.07.2000)	11 August 2000 (11.08.2000)					
	d mailing adress of the ISA/AT	Authorized officer					
Austria	an Patent Office	Bencze					
	narkt 8-10; A-1014 Vienna e No. 1/53424/535	Telephone No. 1/53424/373					
Form PC	T/ISA/210 (second sheet) (July 1998)	1 selephone tree 1.00 im in o i					

INTERNATIONAL SEARCH REPORT



	Document US 5431324 A relates to an ultrasonic bonding apparatus and quality monotoring method.						
	Document US 5101599 A discloses an ultrasonic machine having amplitude control unit.						
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2 20000 2000	Form PCT/ISA/210 (extra sheet) (July 1998)						

INTERNATI AL SEARCH REPORT Information on patent family members

ternational application No. PCT_SG 99/00139

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
US	A	5101599	07-04-1992	DE	Al	4121148	09-01-1992
				JP	A2	4063668	28-02-1992
บร	Α	5431324	11-07-1995	JP	A2	5206224	13-08-1993
				JP	B2	2705423	28-01-1998